

Microservices and beyond

Aliaksei Bialiauski

9 Lectures

9 Praccs

Lectures

1. SOA and Microservices
2. Microservices Patterns
3. IO vs. NIO
4. Messaging in distributed systems
5. Data formats for distributed exchange
6. Event-Driven Architecture and CQRS
7. NoSQL vs. SQL
8. Caching
9. Infrastructure behind distributed systems

Each one is 60 minutes including Q&A at the end (10 minutes).

Praccs

1. Managing containers with K8s
2. Implementing microservices patterns with Spring Cloud and K8s
3. RESTful communication between microservices
4. Apache Kafka as message broker
5. Saga example with Kafka and PostgreSQL
6. Event Sourcing and CQRS with Kafka
7. MongoDB as document storage in microservices
8. Example of caching with Redis
9. Enabling NIO using Project Reactor

Each one is 90 minutes

After each practice students will be assigned to build custom projects on top of what we discussed.